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Primavera
P6 EPPM Business Object Events Reference Guide for On-Premises

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About This Guide

Scope

Use this guide to learn more about the types of events that can be triggered when using P6.

Audience

This guide is intended to be used by system and network administrators.

Within our documentation, some content might be specific for cloud deployments while other content is relevant for on-premises deployments. Any content that applies to only one of these deployments is labeled accordingly.

About Personal Information

Personal information (PI) is any piece of data which can be used on its own or with other information to identify, contact or locate an individual or identify an individual in context. This information is not limited to a person's name, address, and contact details, for example a person's IP address, phone IMEI number, gender, and location at a particular time could all be personal information. Organizations are responsible for ensuring the privacy of PI wherever it is stored, including in back-ups, locally stored downloads, and data stored in development environments.

Caution: Personal information (PI) may be at risk of exposure. Depending on local data protection laws organizations may be responsible for mitigating any risk of exposure.

Overview of Eventing

Depending on administrative settings, events can be triggered by changes that take place in the P6 database. These events can be classified into two types of events:

- ▶ **Business object events:** Triggered when the P6, the P6 Integration API (on-premises only), or P6 EPPM Web Services is used to update or create objects in the P6 database.
- ▶ **Special operation events:** Triggered when a supported operation or job service is invoked.

When a change triggers an event, the P6 Event Notification system sends the event message to a user configured message queue. You can use the events in a client application to trigger subsequent actions. You could, for example, launch an external workflow based on the existence of a specific event.

Note: The content in this section details optional configuration for P6. You do not need to configure eventing for P6 in order to enable P6 for

users to work in the application.

Event Triggers

An event may be one of two types, a business object event or a special operation event.

- ▶ See Business Object Events for a list of business object events.
- ▶ See Special Operation Events for a list of special operation events.

Changes that trigger events

With the exception of the Timesheet object, create and update changes made to supported objects using P6, the P6 Integration API (on-premises only), or P6 EPPM Web Services will trigger an event. When a status change is made to a Timesheet object using P6, a TimesheetUpdated event will be triggered.

Changes that do not trigger events

The following create and update changes do not trigger events:

- ▶ Create and update changes made to objects that do not support events
- ▶ Create and update changes made to objects that support events but are not configured to send events
- ▶ Changes made in P6 Professional

Note: Additionally, an event is triggered when you run either the Apply Actuals or Summarize Job service from P6 Professional. Receiving either of these events depends on administrative settings and requires that P6, the P6 Integration API (on-premises only), or P6 EPPM Web Services is running on the same database as P6 Professional.

Business Object vs Special Operation Events

Events are triggered when a supported business object is updated or changed. Forty-seven P6 business objects support both create and update event notification messages.

Note: Only updates to physical fields trigger events. Updates or changes to calculated fields or BLOBs, GUIDs, or SequenceNumbers do not trigger events.

In addition to update and create changes to the database, changes caused by special operations also trigger events. Twenty-two special operations trigger events when the operation specified by the message completes.

- ▶ See **Business Object Events** (on page 9) for additional information about business object events.
- ▶ See **Special Operation Events** (on page 13) for additional information about special operation events.

Administrators can enable and disable event notification messages on a per object basis. Refer to the *P6 EPPM Application Administration Guide* for additional information.

Business Object Events

Forty-seven P6 business objects support create and update event notification messages. Administrators can enable and disable event notification messages on a per object basis.

The table below lists the business objects that support event notification messages along with the message that is sent when an event is triggered:

Object	Notification Message	Triggered Message
Activity	ActivityCreated Message (on page 20)	ActivityUpdated Message (on page 21)
ActivityCodeAssignment	ActivityCodeAssignmentCreated Message (on page 19)	ActivityCodeAssignmentUpdated Message (on page 19)
ActivityExpense	ActivityExpenseCreated Message (on page 25)	ActivityExpenseUpdated Message (on page 25)
ActivityNote	ActivityNoteCreated Message (on page 27)	ActivityNoteUpdated Message (on page 28)
ActivityOwner	ActivityOwnerCreated Message (on page 29)	ActivityOwnerUpdated Message (on page 29)
ActivityRisk	ActivityRiskCreated Message (on page 30)	ActivityRiskUpdated Message (on page 30)
ActivityStep	ActivityStepCreated Message (on page 31)	ActivityStepUpdated Message (on page 31)
BaselineProject	BaselineProjectCreated Message (on page 32)	BaselineProjectUpdated Message (on page 33)
Calendar	CalendarCreated Message (on page 38)	CalendarUpdated Message (on page 38)
EPS	EPSCreated Message (on page 42)	EPSUpdated Message (on page 42)
EPSBudgetChangeLog	EPSBudgetChangeLogCreated Message (on page 40)	EPSBudgetChangeLogUpdated Message (on page 40)
EPSFunding	EPSFundingCreated Message (on page 43)	EPSFundingUpdated Message (on page 43)
EPSNote	EPSNoteCreated Message (on page 44)	EPSNoteUpdated Message (on page 45)
Project	ProjectCreated Message (on page 46)	ProjectUpdated Message (on page 46)

Object	Notification Message	Triggered Message
	page 49)	page 49)
ProjectBudgetChangeLog	ProjectBudgetChangeLogCreated Message (on page 46)	ProjectBudgetChangeLogUpdated Message (on page 46)
ProjectCodeAssignment	ProjectCodeAssignmentCreated Message (on page 48)	ProjectCodeAssignmentUpdated Message (on page 48)
ProjectFunding	ProjectFundingCreated Message (on page 56)	ProjectFundingUpdated Message (on page 56)
ProjectIssue	ProjectIssueCreated Message (on page 57)	ProjectIssueUpdated Message (on page 57)
ProjectNote	ProjectNoteCreated Message (on page 60)	ProjectNoteUpdated Message (on page 60)
ProjectPortfolio	ProjectPortfolioCreated Message (on page 61)	ProjectPortfolioUpdated Message (on page 61)
ProjectResource	ProjectResourceCreated Message (on page 62)	ProjectResourceUpdated Message (on page 63)
Relationship	RelationshipCreated Message (on page 64)	RelationshipUpdated Message (on page 65)
Resource	ResourceCreated Message (on page 72)	ResourceUpdated Message (on page 72)
ResourceAssignment	ResourceAssignmentCreated Message (on page 66)	ResourceAssignmentUpdated Message (on page 67)
ResourceCodeAssignment	ResourceCodeAssignmentCreated Message (on page 70)	ResourceCodeAssignmentUpdated Message (on page 71)
ResourceRate	ResourceRateCreated Message (on page 74)	ResourceRateUpdated Message (on page 75)
ResourceRole	ResourceRoleCreated Message (on page 76)	ResourceRoleUpdated Message (on page 76)
ResourceTeam	ResourceTeamCreated Message (on page 77)	ResourceTeamUpdated Message (on page 78)
Risk	RiskCreated Message (on page 80)	RiskUpdated Message (on page 80)
RiskCategory	RiskCategoryCreated Message (on page 79)	RiskCategoryUpdated Message (on page 79)

Object	Notification Message	Triggered Message
RiskImpact	RiskImpactCreated Message (on page 82)	RiskImpactUpdated Message (on page 83)
RiskMatrix	RiskMatrixCreated Message (on page 84)	RiskMatrixUpdated Message (on page 84)
RiskMatrixScore	RiskMatrixScoreCreated Message (on page 85)	RiskMatrixScoreUpdated Message (on page 85)
RiskMatrixThreshold	RiskMatrixThresholdCreated Message (on page 87)	RiskMatrixThresholdUpdated Message (on page 87)
RiskResponseAction	RiskResponseActionCreated Message (on page 88)	RiskResponseActionUpdated Message (on page 88)
RiskResponseActionImpact	RiskResponseActionImpactCreated Message (on page 90)	RiskResponseActionImpactUpdated Message (on page 90)
RiskResponsePlan	RiskResponsePlanCreated Message (on page 91)	RiskResponsePlanUpdated Message (on page 92)
RiskThreshold	RiskThresholdCreated Message (on page 93)	RiskThresholdUpdated Message (on page 93)
RiskThresholdLevel	RiskThresholdLevelCreated Message (on page 94)	RiskThresholdLevelUpdated Message (on page 95)
Role	RoleCreated Message (on page 96)	RoleUpdated Message (on page 96)
RoleRate	RoleRateCreated Message (on page 97)	RoleRateUpdated Message (on page 98)
RoleTeam	RoleTeamCreated Message (on page 99)	RoleTeamUpdated Message (on page 99)
Timesheet	Not Applicable	TimesheetUpdated Message (on page 100)
UDFValue	UDFValueCreated Message (on page 102)	UDFValueUpdated Message (on page 103)
User	UserCreated Message (on page 105)	UserUpdated Message (on page 105)
UserOBS	UserOBSCreated Message (on page 106)	UserOBSUpdated Message (on page 107)
WBS	WBSCreated Message (on page 108)	WBSUpdated Message (on page 109)

Object	Notification Message	Triggered Message
	page 108)	page 108)

Sample Business Object Event Message

Sample ActivityCreated Message: When an activity is created, the system sends an ActivityCreated message similar to the following message:

```
<?xml version="1.0" encoding="UTF-8"?>
<MessagingObjects
  xmlns="http://xmlns.oracle.com/Primavera/P6/V8.2/Common/Event"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ActivityCreated>
    <Id>Auto-1</Id>
    <ObjectId>125500</ObjectId>
    <ProjectObjectId>11840</ProjectObjectId>
    <WBSObjectId>36320</WBSObjectId>
  </ActivityCreated>
</MessagingObjects>
```

Sample ActivityUpdated Message: When an activity is updated, the system sends an ActivityUpdated message similar to the following message:

```
<?xml version="1.0" encoding="UTF-8"?>
<MessagingObjects
  xmlns="http://xmlns.oracle.com/Primavera/P6/V8.2/Common/Event"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ActivityUpdated>
    <Id>Auto-1</Id>
    <Name>t2</Name>
    <ObjectId>125500</ObjectId>
    <ProjectObjectId>11840</ProjectObjectId>
    <WBSObjectId>36320</WBSObjectId>
    <NewValues>
      <Name>t2</Name>
    </NewValues>
    <OldValues>
      <Name>Auto-1</Name>
    </OldValues>
  </ActivityUpdated>
</MessagingObjects>
```

Special Operation Events

Special operation events are triggered when the operations listed below complete. The special operation event messages contain operation-specific fields that are included with the message depending on which operation triggered the event message. For additional information relating to the messages, refer to the reference section of this document or the p6events.xsd schema file that is shipped on P6 media.

JobService: Occurs when the JobService completes. The event message includes a status element that indicates whether the operation completed successfully or not.

Publication Service: Occurs when the specified Publish service completes. The event message includes a status element that indicates whether the operation completed successfully or not.

API: Occurs after an XML file has been imported regardless of success or failure of the import.

Content Repository: Occurs when a document has been successfully checked into the content repository, or when a folder or document has been successfully added to the repository.

Stored Procedure: Occurs when the stored procedure completes successfully.

Special Operation Type	Operation	Message
Job Service	ApplyActuals	<i>ApplyActualsInvoked Message</i> (on page 111)
Job Service	CopyProject	<i>CopyProjectInvoked Message</i> (on page 115)
Job Service	CopyorCreateBaseline	<i>CopyBaselineInvoked Method</i> (on page 113) or <i>CreateBaselineInvoked Message</i> (on page 115)
Job Service	Export	<i>ExportInvoked Message</i> (on page 117)
Job Service	GlobalSearchandReplace	<i>GlobalSearchandReplacInvoked Message</i> (on page 118)
Job Service	Import	<i>ImportInvoked Message</i> (on page 119)
Job Service	Level	<i>LevelInvoked Message</i> (on page 119)
Job Service	PublishAuditdata	<i>PublishAuditdataInvoked Message</i> (on page 120)
Job Service	RecalculateAssignmentCosts	<i>RecalculateAssignmentCosts Invoked Message</i> (on page 124)
Job Service	Schedule	<i>ScheduleInvoked Message</i> (on page 125)

Special Operation Type	Operation	Message
Job Service	StorePeriodPerformance	<i>StorePeriodPerformanceInvoked Message</i> (on page 126)
Job Service	Summarize	<i>SummarizeInvoked Message</i> (on page 127)
Job Service	Updatebaseline	<i>UpdatebaselineInvoked Message</i> (on page 128)
Publication Service	PublishProject	<i>PublishProjectInvoked Message</i> (on page 121)
Publication Service	PublishEnterpriseData	<i>PublishEnterpriseDataInvoked Message</i> (on page 120)
Publication Service	PublishSecurity	<i>PublishSecurityInvoked Message</i> (on page 124)
Publication Service	PublishEnterpriseSummaries	<i>PublishEnterpriseSummariesInvoked Message</i> (on page 121)
Publication Service	PublishResourceManagement	<i>PublishResourceManagementInvoked Message</i> (on page 122)
Publication Service	PublishResourceRoleAssignmentSpread	<i>PublishResourceRoleAssignmentSpreadInvoked Message</i> (on page 123)
API	XML Import	<i>XMLImportInvoked Message</i> (on page 129)
Content Repository	AddDocument	<i>ContentRepositoryDocumentAdded Message</i> (on page 112)
Content Repository	AddFolder	<i>ContentRepositoryFolderAdded Message</i> (on page 112)
Content Repository	CheckIn	<i>ContentRepositoryDocumentCheckedIn Message</i> (on page 112)
Stored Procedure	ConvertProjectToBaseline	<i>ConvertProjectToBaselineInvoked Message</i> (on page 112)
Stored Procedure	CreateProjectFromTemplate	<i>CreateProjectFromTemplateInvoked Message</i> (on page 117)
Stored Procedure	CreateTemplateFromProject	<i>CreateTemplatefromProjectInvoked Message</i> (on page 117)
Stored Procedure	RestoreBaselineProject	<i>RestoreBaselineProjectInvoked Message</i> (on page 125)

JMS Message Properties Support

Using JMS messages properties, you can select event messages that are received for P6 based on the following message properties:

- ▶ Type
- ▶ Group
- ▶ Name
- ▶ Operation

Property Name	Possible Property Values
Type	▶ Business Objects ▶ Special Operations
Group	▶ For business object events: Activity, EPS... ▶ For special operations events: Job Service, API...

Name	▶ For business object events: ▶ Activity: Activity, ActivityCodeAssignment, ActivityExpense, ActivityNote, ActivityOwner, ActivityStep, Relationship, ResourceAssignment ▶ EPS: EPS EPSBudgetChangeLog, EPSFunding, EPSNote ▶ Global: Calendar, Timesheet, User, UserOBS ▶ Project: BaselineProject, Project, ProjectBudgetChangeLog, ProjectCodeAssignment, ProjectFunding, ProjectIssue, ProjectNote, ProjectPortfolio, ProjectResource, WBS ▶ Resource: Resource, RsourceCodeAssignment, ResourceRate, ResourceRole, ResourceTeam, Role, RoleRate, RoleTeam ▶ Risk: ActivityRisk, Risk, RiskCategory, RiskImpact, RiskMatrix, RiskMatrixScore, RiskMatrixThreshold, RiskResponseAction, RiskResponseActionImpact, RiskResponsePlan, RiskThreshold, RiskThresholdLevel ▶ UDF: UDF ▶ For special operations events: Apply Actuals, Schedule... ▶ Job Service: Apply Actuals, Schedule, Store Period Performance, Summarize, Level, Recalculate Assignment Costs ▶ Publication Service: Publish Project, Publish Enterprise Data, Publish Enterprose Summaries, Publish Resource Management, Publish Security ▶ API: XML Import ▶ Content Repository: Add Document, Add Folder, Check In ▶ Stored Procedures: Copy Project, Copy Project As Baseline, Create project From Template, Create Copy As Template, Copy Baseline Project, Restore Baseline Project, Convert project to Baseline
Operation (only for business object events)	▶ Created ▶ Updated

Sample Special Operation Event Message

A message similar to the following is triggered by the ScheduledInvoked event:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<MessagingObjects
xmlns="http://xmlns.oracle.com/Primavera/P6/V8.2/Common/Event"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ScheduleInvoked>
    <DataDate>2015-01-03T08:00:00</DataDate>
    <Project>
      <Id>Auto-Testproj2</Id>
      <Name>Auto-Testproj2</Name>
      <ObjectId>1001</ObjectId>
    </Project>
    <Status>Completed</Status>
  </ScheduleInvoked>
</MessagingObjects>
```


Reference Material

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Business Object Event Message Contents

ActivityCodeAssignmentCreated Message

Field	Type	Description
ActivityCodeObjectId	int	The unique ID of the associated activity code.
ActivityCodeTypeObjectId	int	The unique ID of the parent activity code type.
ActivityObjectId	int	The unique ID of the activity to which the activity code is assigned.
ProjectObjectId	int	The unique ID of the associated project.

ActivityCodeAssignmentUpdated Message

Field	Type	Description
ActivityCodeObjectId	int	The unique ID of the associated activity code.
ActivityCodeTypeObjectId	int	The unique ID of the parent activity code type.
ActivityObjectId	int	The unique ID of the activity to which the activity code is assigned.
ProjectObjectId	int	The unique ID of the associated project.

NewValues	ActivityCodeAssignmentType Refer to the entries in the ActivityCodeAssignmentType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ActivityCodeAssignmentType Refer to the entries in the ActivityCodeAssignmentType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ActivityCodeAssignmentType Table

Type: ActivityCodeAssignmentType	
Elements	Type
ActivityCodeObjectId	int
ActivityObjectId	int

ActivityCreated Message

Field	Type	Description
Id	string	The short ID that uniquely identifies the activity within the project.
Name	string	The name of the activity. The activity name does not have to be unique.
ObjectId	int	The unique ID generated by the system.

Field	Type	Description
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the WBS for the activity.

ActivityUpdated Message

Field	Type	Description
Id	string	The short ID that uniquely identifies the activity within the project.
Name	string	The name of the activity. The activity name does not have to be unique.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the WBS for the activity.
NewValues	ActivityType Refer to the entries in the ActivityType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ActivityType Refer to the entries in the ActivityType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ActivityType Table

Type: ActivityType	
Elements	Type
ActualFinishDate	dateTime
ActualLaborUnits	double
ActualNonLaborUnits	double
ActualStartDate	dateTime
ActualThisPeriodLaborUnits	double
ActualThisPeriodNonLaborUnits	double
AtCompletionLaborUnits	double
AtCompletionNonLaborUnits	double
AutoComputeActuals	boolean
CalendarObjectId	int
CBSCode	string
DBPhysicalPercentComplete	double
DurationType	string restricted to 'Fixed Units/Time' 'Fixed Duration and Units/Time' 'Fixed Units' 'Fixed Duration and Units'
ExpectedFinishDate	dateTime
Id	string
IsNewFeedback	boolean
IsStarred	boolean

LevelingPriority	string restricted to 'Top' 'High' 'Normal' 'Low' 'Lowest'
LocationObjectId	int
Name	string
ObjectId	int
PercentCompleteType	string restricted to 'Physical' 'Duration' 'Units'
PlannedDuration	double
PlannedFinishDate	dateTime
PlannedLaborUnits	double
PlannedNonLaborUnits	double
PlannedStartDate	dateTime
PrimaryConstraintDate	dateTime
PrimaryConstraintType	string restricted to 'Start On' 'Start On or Before' 'Start On or After' 'Finish On' 'Finish On or Before' 'Finish On or After' 'As Late As Possible' 'Mandatory Start' 'Mandatory Finish'
PrimaryResourceObjectId	int

ProjectObjectId	int
RemainingDuration	double
RemainingEarlyFinishDate	dateTime
RemainingEarlyStartDate	dateTime
RemainingLaborUnits	double
RemainingLateFinishDate	dateTime
RemainingLateStartDate	dateTime
RemainingNonLaborUnits	double
ResumeDate	dateTime
ReviewRequired	boolean
ReviewStatus	string restricted to 'OK' 'For Review' 'Rejected'
SecondaryConstraintDate	dateTime
SecondaryConstraintType	string restricted to 'Start On' 'Start On or Before' 'Start On or After' 'Finish On' 'Finish On or Before' 'Finish On or After' 'As Late As Possible' 'Mandatory Start' 'Mandatory Finish'
Status	string restricted to 'Not Started' 'In Progress' 'Completed'

SuspendDate	dateTime
Type	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'
WBSObjectId	int

ActivityExpenseCreated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the project expense is linked. Every project expense is associated with one activity in the project.
CostAccountObjectId	int	The unique ID of the cost account associated with the project expense.
ExpenseCategoryObjectId	int	The unique ID of the expense category for the project expense.
ExpenseItem	string	The name of the project expense.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.

ActivityExpenseUpdated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the project expense is linked. Every project expense is associated with one activity in the

Field	Type	Description
		project.
CostAccountObjectId	int	The unique ID of the cost account associated with the project expense.
ExpenseCategoryId	int	The unique ID of the expense category for the project expense.
ExpenseItem	string	The name of the project expense.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
NewValues	ActivityExpenseType Refer to the entries in the ActivityExpenseType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ActivityExpenseType Refer to the entries in the ActivityExpenseType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ActivityExpenseType Table

Type: ActivityExpenseType	
Elements	Type

AccrualType	string restricted to 'Start of Activity' 'End of Activity' 'Uniform Over Activity'
ActivityObjectId	int
ActualCost	double
AutoComputeActuals	boolean
CostAccountObjectId	int
DocumentNumber	string
ExpenseCategoryObjectId	int
ExpenseItem	string
ObjectId	int
PlannedCost	double
PlannedUnits	double
PricePerUnit	double
RemainingCost	double
UnitOfMeasure	string
Vendor	string

ActivityNoteCreated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the activity note is assigned.
NotebookTopicObjectId	int	The unique ID of the associated notebook topic.
ObjectId	int	The unique ID generated by the system.

ActivityNoteUpdated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the activity note is assigned.
NotebookTopicObjectId	int	The unique ID of the associated notebook topic.
ObjectId	int	The unique ID generated by the system.
NewValues	ActivityNoteType Refer to the entries in the ActivityNoteType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ActivityNoteType Refer to the entries in the ActivityNoteType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ActivityNoteType Table

Type: ActivityNoteType	
Elements	Type
ActivityObjectId	int
NotebookTopicObjectId	int
ObjectId	int

ActivityOwnerCreated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the associated activity.
ProjectObjectId	int	The unique ID of the associated project.
UserObjectId	int	The unique ID of the associated user.

ActivityOwnerUpdated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the associated activity.
ProjectObjectId	int	The unique ID of the associated project.
UserObjectId	int	The unique ID of the associated user.
NewValues	ActivityOwnerType Refer to the entries in the ActivityOwnerType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ActivityOwnerType Refer to the entries in the ActivityOwnerType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ActivityOwnerType Table

Type: ActivityOwnerType	
Elements	Type

ActivityObjectId	int
IsActivityFlagged	boolean
UserObjectId	int

ActivityRiskCreated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the risk is assigned.
ProjectObjectId	int	The unique ID of the associated project.
RiskObjectId	int	The unique ID of the associated risk.

ActivityRiskUpdated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the risk is assigned.
ProjectObjectId	int	The unique ID of the associated project.
RiskObjectId	int	The unique ID of the associated risk.
NewValues	ActivityRiskType Refer to the entries in the ActivityRiskType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.

OldValues	ActivityRiskType Refer to the entries in the ActivityRiskType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.
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ActivityRiskType Table

Type: ActivityRiskType	
Elements	Type
ActivityObjectId	int
RiskObjectId	int

ActivityStepCreated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the steps are assigned.
Name	string	The name of the activity step.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.

ActivityStepUpdated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the steps are assigned.
Name	string	The name of the activity step.

ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
NewValues	ActivityStepType Refer to the entries in the ActivityStepType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ActivityStepType Refer to the entries in the ActivityStepType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ActivityStepType Table

Type: ActivityStepType	
Elements	Type
ActivityObjectId	int
IsCompleted	boolean
Name	string
ObjectId	int
PercentComplete	double
Weight	double

BaselineProjectCreated Message

Field	Type	Description
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Field	Type	Description
Id	string	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
Name	string	The name of the baseline project.
ObjectId	int	The unique ID generated by the system.

BaselineProjectUpdated Message

Field	Type	Description
Id	string	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
Name	string	The name of the baseline project.
ObjectId	int	The unique ID generated by the system.
NewValues	BaselineProjectType Refer to the entries in the BaselineProjectType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	BaselineProjectType Refer to the entries in the BaselineProjectType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

BaselineProjectType Table

Type: BaselineProjectType	
Elements	Type
ActivityDefaultActivityType	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'
ActivityDefaultCalendarObjectId	int
ActivityDefaultCostAccountObjectId	int
ActivityDefaultDurationType	string restricted to 'Fixed Units/Time' 'Fixed Duration and Units/Time' 'Fixed Units' 'Fixed Duration and Units'
ActivityDefaultPercentCompleteType	string restricted to 'Physical' 'Duration' 'Units'
ActivityDefaultPricePerUnit	double
ActivityIdBasedOnSelectedActivity	boolean
ActivityIdIncrement	int
ActivityIdPrefix	string
ActivityIdSuffix	int
ActivityPercentCompleteBasedOnActivitySteps	boolean
AddActualToRemaining	boolean

AddedBy	string
AllowStatusReview	boolean
AnnualDiscountRate	double
AnticipatedFinishDate	dateTime
AnticipatedStartDate	dateTime
AssignmentDefaultDrivingFlag	boolean
AssignmentDefaultRateType	string restricted to 'Price / Unit' 'Price / Unit 2' 'Price / Unit 3' 'Price / Unit 4' 'Price / Unit 5'
BaselineTypeObjectId	int
CostQuantityRecalculateFlag	boolean
CriticalActivityFloatLimit	double
CriticalActivityPathType	string restricted to 'Critical Float' 'Longest Path'
DateAdded	dateTime
DefaultPriceTimeUnits	string restricted to 'Hour' 'Day' 'Week' 'Month' 'Year' 'Days Hours' 'Hours Minutes'
Description	string

DiscountApplicationPeriod	string restricted to 'Month' 'Quarter' 'Year'
EnablePublication	boolean
EnableSummarization	boolean
FiscalYearStartMonth	int
HistoryInterval	string restricted to 'Month' 'Week' 'Quarter' 'Year' 'Financial Period'
HistoryLevel	string restricted to 'None' 'Project' 'WBS' 'Activity'
Id	string
IndependentETCLaborUnits	double
IndependentETCTotalCost	double
LastBaselineUpdateDate	dateTime
LastFinancialPeriodObjectId	int
LastUpdateBaselineOptions	string
LevelingPriority	int
LinkActualToActualThisPeriod	boolean
LinkPercentCompleteWithActual	boolean
LinkPlannedAndAtCompletionFlag	boolean

LocationObjectId	int
MustFinishByDate	dateTime
Name	string
OBSObjectId	int
ObjectId	int
OriginalBudget	double
OwnerResourceObjectId	int
ParentEPSObjectId	int
PlannedStartDate	dateTime
PrimaryResourcesCanMarkActivitiesAsCompleted	boolean
ProjectForecastStartDate	dateTime
PublicationPriority	int
ResetPlannedToRemainingFlag	boolean
ResourceCanBeAssignedToSameActivityMoreThanOnce	boolean
ResourcesCanAssignThemselvesToActivities	boolean
ResourcesCanEditAssignmentPercentComplete	boolean
RiskMatrixObjectId	int
ScheduledFinishDate	dateTime
Status	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'
StatusReviewerObjectId	int

StrategicPriority	int
WBSCodeSeparator	string
WebSiteRootDirectory	string
WebSiteURL	string

CalendarCreated Message

Field	Type	Description
Name	string	The name of the calendar.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
Type	string restricted to 'Global' 'Project' 'Resource'	The calendar type - either 'Global', 'Resource', or 'Project'. 'Global' calendars can be assigned to projects and resources. 'Resource' calendars can be assigned only to resources. 'Project' calendars are specific to projects.

CalendarUpdated Message

Field	Type	Description
Name	string	The name of the calendar.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
Type	string restricted to 'Global'	The calendar type - either 'Global', 'Resource', or 'Project'. 'Global' calendars can be assigned to

Field	Type	Description
	'Project' 'Resource'	projects and resources. 'Resource' calendars can be assigned only to resources. 'Project' calendars are specific to projects.
NewValues	CalendarType Refer to the entries in the CalendarType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	CalendarType Refer to the entries in the CalendarType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

CalendarType Table

Type: CalendarType	
Elements	Type
BaseCalendarObjectId	int
HoursPerDay	double
HoursPerMonth	double
HoursPerWeek	double
HoursPerYear	double
IsDefault	boolean
IsPersonal	boolean
Name	string
ObjectId	int

ProjectObjectId	int
Type	string restricted to 'Global' 'Project' 'Resource'
CalendarData	string

EPSBudgetChangeLogCreated Message

Field	Type	Description
ChangeNumber	string	The change number that is automatically incremented according to when changes are added. This can be changed to any number.
EPSObjectId	int	The unique ID of the EPS element to which the budget change log applies.
ObjectId	int	The unique ID generated by the system.

EPSBudgetChangeLogUpdated Message

Field	Type	Description
ChangeNumber	string	The change number that is automatically incremented according to when changes are added. This can be changed to any number.
EPSObjectId	int	The unique ID of the EPS element to which the budget change log applies.
ObjectId	int	The unique ID generated by the system.
NewValues	EPSBudgetChangeLogType	The new values of Physical and

Field	Type	Description
	Refer to the entries in the EPSBudgetChangeLogType Table below. Additional information can be found in the p6events.xsd schema.	writable fields that have changed.
OldValues	EPSBudgetChangeLogType Refer to the entries in the EPSBudgetChangeLogType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

EPSBudgetChangeLogType Table

Type: EPSBudgetChangeLogType	
Elements	Type
Amount	double
ChangeNumber	string
Date	dateTime
EPSObjectId	int
ObjectId	int
ProjectObjectId	int
Reason	string
Responsible	string
Status	string restricted to 'Pending' 'Approved' 'Not Approved'

EPSCreated Message

Field	Type	Description
Id	string	The short code assigned to each EPS element for identification.
Name	string	The name of the EPS element.
ObjectId	int	The unique ID generated by the system.

EPSUpdated Message

Field	Type	Description
Id	string	The short code assigned to each EPS element for identification.
Name	string	The name of the EPS element.
ObjectId	int	The unique ID generated by the system.
NewValues	EPSType Refer to the entries in the EPSType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	EPSType Refer to the entries in the EPSType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

EPSType Table

Type: EPSType	
Elements	Type
AnticipatedFinishDate	dateTime
AnticipatedStartDate	dateTime
Id	string
Name	string
OBSObjectld	int
Objectld	int
OriginalBudget	double
ParentObjectld	int

EPSFundingCreated Message

Field	Type	Description
EPSObjectld	int	The unique ID of the associated EPS for this EPS funding.
FundingSourceObjectld	int	The unique ID of the associated funding source for this EPS funding.
Objectld	int	The unique ID generated by the system.

EPSFundingUpdated Message

Field	Type	Description
EPSObjectld	int	The unique ID of the associated EPS for this EPS funding.
FundingSourceObjectld	int	The unique ID of the associated funding source for this EPS

Field	Type	Description
		funding.
ObjectId	int	The unique ID generated by the system.
NewValues	EPSFundingType Refer to the entries in the EPSFundingType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	EPSFundingType Refer to the entries in the EPSFundingType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

EPSFundingType Table

Type: EPSFundingType	
Elements	Type
Amount	double
FundShare	double
FundingSourceObjectId	int
ObjectId	int
ProjectObjectId	int

EPSNoteCreated Message

Field	Type	Description
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EPSObjectId	int	The unique ID of the associated EPS.
NotebookTopicObjectId	int	The unique ID of the associated notebook topic.
ObjectId	int	The unique ID generated by the system.

EPSNoteUpdated Message

Field	Type	Description
EPSObjectId	int	The unique ID of the associated EPS.
NotebookTopicObjectId	int	The unique ID of the associated notebook topic.
ObjectId	int	The unique ID generated by the system.
NewValues	EPSNoteType Refer to the entries in the EPSNoteType below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	EPSNoteType Refer to the entries in the EPSNoteType below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

EPSNoteType Table

Type: EPSNoteType	
Elements	Type
EPSObjectId	int

NotebookTopicObjectId	int
ObjectId	int
ProjectObjectId	int

ProjectBudgetChangeLogCreated Message

Field	Type	Description
ChangeNumber	string	The change number that is automatically incremented according to when changes are added. This can be changed to any number.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the WBS element to which the budget change log applies.

ProjectBudgetChangeLogUpdated Message

Field	Type	Description
ChangeNumber	string	The change number that is automatically incremented according to when changes are added. This can be changed to any number.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the WBS element to which the budget change log applies.
NewValues	ProjectBudgetChangeLogType	The new values of Physical and

Field	Type	Description
	Refer to the entries in the ProjectBudgetChangeLogType Table below. Additional information can be found in the p6events.xsd schema.	writable fields that have changed.
OldValues	ProjectBudgetChangeLogType Refer to the entries in the ProjectBudgetChangeLogType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectBudgetChangeLogType Table

Type: ProjectBudgetChangeLogType	
Elements	Type
Amount	double
ChangeNumber	string
Date	dateTime
ObjectId	int
ProjectObjectId	int
Reason	string
Responsible	string
Status	string restricted to 'Pending' 'Approved' 'Not Approved'
WBSObjectId	int

ProjectCodeAssignmentCreated Message

Field	Type	Description
ProjectCodeObjectId	int	The unique ID of the associated project code.
ProjectCodeTypeObjectId	int	The unique ID of the parent project code type.
ProjectObjectId	int	The unique ID of the project to which the project code is assigned.

ProjectCodeAssignmentUpdated Message

Field	Type	Description
ProjectCodeObjectId	int	The unique ID of the associated project code.
ProjectCodeTypeObjectId	int	The unique ID of the parent project code type.
ProjectObjectId	int	The unique ID of the project to which the project code is assigned.
NewValues	ProjectCodeAssignmentType Refer to the entries in the ProjectCodeAssignment Type Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.

Field	Type	Description
OldValues	ProjectCodeAssignmentType Refer to the entries in the ProjectCodeAssignmentType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectCodeAssignmentType Table

Type: ProjectCodeAssignmentType	
Elements	Type
ProjectCodeObjectId	int
ProjectObjectId	int

ProjectCreated Message

Field	Type	Description
Id	string	The short code assigned to each Project element for identification. Each Project element is uniquely identified by this short code.
Name	string	The name of the Project element.
ObjectId	int	The unique ID generated by the system.

ProjectUpdated Message

Field	Type	Description
Id	string	The short code assigned to each Project element for identification. Each Project element is uniquely

Field	Type	Description
		identified by this short code.
Name	string	The name of the Project element.
ObjectId	int	The unique ID generated by the system.
NewValues	ProjectType Refer to the entries in the ProjectType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ProjectType Refer to the entries in the ProjectType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectType Table

Type: ProjectType	
Elements	Type
ActivityDefaultActivityType	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'
ActivityDefaultCalendarObjectId	int
ActivityDefaultCostAccountObjectId	int

ActivityDefaultDurationType	string restricted to 'Fixed Units/Time' 'Fixed Duration and Units/Time' 'Fixed Units' 'Fixed Duration and Units'
ActivityDefaultPercentCompleteType	string restricted to 'Physical' 'Duration' 'Units'
ActivityDefaultPricePerUnit	double
ActivityIdBasedOnSelectedActivity	boolean
ActivityIdIncrement	int
ActivityIdPrefix	string
ActivityIdSuffix	int
ActivityPercentCompleteBasedOnActivitySteps	boolean
AddActualToRemaining	boolean
AddedBy	string
AllowNegativeActualUnitsFlag	boolean
AllowStatusReview	boolean
AnnualDiscountRate	double
AnticipatedFinishDate	dateTime
AnticipatedStartDate	dateTime
AssignmentDefaultDrivingFlag	boolean

AssignmentDefaultRateType	string restricted to 'Price / Unit' 'Price / Unit 2' 'Price / Unit 3' 'Price / Unit 4' 'Price / Unit 5'
CheckOutStatus	boolean
ContractManagementGroupName	string
ContractManagementProjectName	string
CostQuantityRecalculateFlag	boolean
CriticalActivityFloatLimit	double
CriticalActivityPathType	string restricted to 'Critical Float' 'Longest Path'
CurrentBaselineProjectObjectId	int
DateAdded	dateTime
DefaultPriceTimeUnits	string restricted to 'Hour' 'Day' 'Week' 'Month' 'Year' 'Days Hours' 'Hours Minutes'
Description	string
DiscountApplicationPeriod	string restricted to 'Month' 'Quarter' 'Year'

EarnedValueComputeType	string restricted to 'Activity Percent Complete' '0 / 100' '50 / 50' 'Custom Percent Complete' 'WBS Milestones Percent Complete' 'Activity Percent Complete Using Resource Curves'
EarnedValueETCComputeType	string restricted to 'ETC = Remaining Cost for Activity' 'PF = 1' 'PF = Custom Value' 'PF = 1 / CPI' 'PF = 1 / (CPI * SPI)'
EarnedValueETCUserValue	double
EarnedValueUserPercent	double
EnablePublication	boolean
EnableSummarization	boolean
FiscalYearStartMonth	int
HistoryInterval	string restricted to 'Month' 'Week' 'Quarter' 'Year' 'Financial Period'
HistoryLevel	string restricted to 'None' 'Project' 'WBS' 'Activity'

Id	string
IndependentETCLaborUnits	double
IndependentETCTotalCost	double
IntegratedType	string restricted to 'ERP' 'Fusion' 'Gateway'
LastFinancialPeriodObjectId	int
LevelingPriority	int
LinkActualToActualThisPeriod	boolean
LinkPercentCompleteWithActual	boolean
LinkPlannedAndAtCompletionFlag	boolean
LocationObjectId	int
MustFinishByDate	dateTime
Name	string
OBSObjectId	int
ObjectId	int
OriginalBudget	double
OwnerResourceObjectId	int
ParentEPSObjectId	int
PlannedStartDate	dateTime
PrimaryResourcesCanMarkActivitiesAsCompleted	boolean
ProjectForecastStartDate	dateTime
PublicationPriority	int
ResetPlannedToRemainingFlag	boolean

ResourceCanBeAssignedToSameActivityMoreThanOnce	boolean
ResourcesCanAssignThemselvesToActivities	boolean
ResourcesCanEditAssignmentPercentComplete	boolean
ResourcesCanMarkAssignmentAsCompleted	boolean
ResourcesCanViewInactiveActivities	boolean
RiskMatrixObjectId	int
ScheduledFinishDate	dateTime
Status	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'
StatusReviewerObjectId	int
StrategicPriority	int
SummarizeToWBSLevel	int
SummarizedDataDate	dateTime
SummaryLevel	string restricted to 'WBS Level' 'Assignment Level'
UseProjectBaselineForEarnedValue	boolean
WBSCodeSeparator	string
WebSiteRootDirectory	string
WebSiteURL	string

ProjectFundingCreated Message

Field	Type	Description
FundingSourceObjectld	int	The unique ID of the associated funding source for this project funding.
Objectld	int	The unique ID generated by the system.
ProjectObjectld	int	The unique ID of the associated project source for this project funding.

ProjectFundingUpdated Message

Field	Type	Description
FundingSourceObjectld	int	The unique ID of the associated funding source for this project funding.
Objectld	int	The unique ID generated by the system.
ProjectObjectld	int	The unique ID of the associated project source for this project funding.
NewValues	ProjectFundingType Refer to the entries in the ProjectFundingType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ProjectFundingType Refer to the entries in the ProjectFundingType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectFundingType Table

Type: ProjectFundingType	
Elements	Type
Amount	double
FundShare	double
FundingSourceObjectId	int
ObjectId	int
ProjectObjectId	int

ProjectIssueCreated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the project issue applies.
Name	string	The name of the project issue. Issues which are automatically generated by the threshold monitor are named after the threshold parameter that triggered the project issue.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the WBS to which the project issue applies. If a parent WBS is selected, the project issue applies to all child elements as well. If the top WBS is selected, the project issue applies to the entire project.

ProjectIssueUpdated Message

Field	Type	Description
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Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the project issue applies.
Name	string	The name of the project issue. Issues which are automatically generated by the threshold monitor are named after the threshold parameter that triggered the project issue.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the WBS to which the project issue applies. If a parent WBS is selected, the project issue applies to all child elements as well. If the top WBS is selected, the project issue applies to the entire project.
NewValues	ProjectIssueType Refer to the entries in the ProjectIssueType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ProjectIssueType Refer to the entries in the ProjectIssueType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectIssueType Table

Type: ProjectIssueType

Elements	Type
ActivityObjectId	int
ActualValue	double
DateIdentified	dateTime
IdentifiedBy	string
LowerThreshold	double
Name	string
OBSObjectId	int
ObjectId	int
Priority	string restricted to 'Top' 'High' 'Normal' 'Low' 'Lowest'
ProjectObjectId	int
ResolutionDate	dateTime
ResourceObjectId	int
Status	string restricted to 'Open' 'On Hold' 'Closed'
UpperThreshold	double
WBSObjectId	int

ProjectNoteCreated Message

Field	Type	Description
NotebookTopicObjectId	int	The unique ID of the associated notebook topic.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the associated WBS.

ProjectNoteUpdated Message

Field	Type	Description
NotebookTopicObjectId	int	The unique ID of the associated notebook topic.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
WBSObjectId	int	The unique ID of the associated WBS.
NewValues	ProjectNoteType Refer to the entries in the ProjectNoteType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ProjectNoteType Refer to the entries in the ProjectNoteType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectNoteType Table

Type: ProjectNoteType	
Elements	Type
NotebookTopicObjectId	int
ObjectId	int
ProjectObjectId	int
WBSObjectId	int

ProjectPortfolioCreated Message

Field	Type	Description
Name	string	The name of the project portfolio.
ObjectId	int	The unique ID generated by the system.
UserObjectId	int	The unique ID of a specific user who has access to the selected project portfolio.

ProjectPortfolioUpdated Message

Field	Type	Description
Name	string	The name of the project portfolio.
ObjectId	int	The unique ID generated by the system.
UserObjectId	int	The unique ID of a specific user who has access to the selected project portfolio.
NewValues	ProjectPortfolioType Refer to the entries in the ProjectPortfolioType Table	The new values of Physical and writable fields that have changed.

Field	Type	Description
	below. Additional information can be found in the p6events.xsd schema.	
OldValues	ProjectPortfolioType Refer to the entries in the ProjectPortfolioType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectPortfolioType Table

Type: ProjectPortfolioType	
Elements	Type
Description	string
IncludeClosedProjects	boolean
IncludeWhatIfProjects	boolean
Name	string
ObjectId	int
UserObjectId	int
Projects	

ProjectResourceCreated Message

Field	Type	Description
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.

Field	Type	Description
ResourceObjec tId	int	The unique ID of the associated resource.
RoleObjectId	int	The unique ID of the associated role.
WBSObjectId	int	The unique ID of the associated WBS.

ProjectResourceUpdated Message

Field	Type	Description
ObjectId	int	The unique ID generated by the system.
ProjectObjectI d	int	The unique ID of the associated project.
ResourceObjec tId	int	The unique ID of the associated resource.
RoleObjectId	int	The unique ID of the associated role.
WBSObjectId	int	The unique ID of the associated WBS.
NewValues	ProjectResourceType Refer to the entries in the ProjectResourceType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ProjectResourceType Refer to the entries in the ProjectResourceType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ProjectResourceType Table

Type: ProjectResourceType	
Elements	Type
CommittedFlag	boolean
LifeOfProjectFlag	boolean
ObjectId	int
ProjectObjectId	int
ProjectResourceCategoryObjectId	int
ResourceObjectId	int
RoleObjectId	int
WBSObjectId	int

RelationshipCreated Message

Field	Type	Description
ObjectId	int	The unique ID generated by the system.
PredecessorActivityObjectId	int	The unique ID of the predecessor activity.
PredecessorProjectObjectId	int	The unique ID of the project that owns the predecessor activity.
SuccessorActivityObjectId	int	The unique ID of the successor activity.
SuccessorProjectObjectId	int	The unique ID of the project that owns the successor activity.
Type	string restricted to 'Finish to Start'	The type of relationship: 'Finish to Start', 'Finish to Finish', 'Start to Start', or 'Start to Finish'.

	'Finish to Finish' 'Start to Start' 'Start to Finish'	
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RelationshipUpdated Message

Field	Type	Description
ObjectId	int	The unique ID generated by the system.
PredecessorActivityObjectId	int	The unique ID of the predecessor activity.
PredecessorProjectObjectId	int	The unique ID of the project that owns the predecessor activity.
SuccessorActivityObjectId	int	The unique ID of the successor activity.
SuccessorProjectObjectId	int	The unique ID of the project that owns the successor activity.
Type	string restricted to 'Finish to Start' 'Finish to Finish' 'Start to Start' 'Start to Finish'	The type of relationship: 'Finish to Start', 'Finish to Finish', 'Start to Start', or 'Start to Finish'.
NewValues	RelationshipType Refer to the entries in the RelationshipType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.

OldValues	RelationshipType Refer to the entries in the RelationshipType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.
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RelationshipType Table

Type: RelationshipType	
Elements	Type
Lag	double
ObjectId	int
PredecessorActivityObjectId	int
PredecessorProjectObjectId	int
SuccessorActivityObjectId	int
SuccessorProjectObjectId	int
Type	string restricted to 'Finish to Start' 'Finish to Finish' 'Start to Start' 'Start to Finish'

ResourceAssignmentCreated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the resource is assigned.
CostAccountObjectId	int	The unique ID of the cost account associated with

		this resource assignment.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
ResourceObjectId	int	The unique ID of the associated resource.
RoleObjectId	int	The unique ID of the role the resource is performing on this activity. A resource may be assigned to the same activity more than once, performing different roles. The project manager controls whether the same resource can be assigned to an activity more than once.

ResourceAssignmentUpdated Message

Field	Type	Description
ActivityObjectId	int	The unique ID of the activity to which the resource is assigned.
CostAccountObjectId	int	The unique ID of the cost account associated with this resource assignment.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
ResourceObjectId	int	The unique ID of the associated resource.
RoleObjectId	int	The unique ID of the role the resource is performing on this activity. A resource may be assigned to the same activity more than once, performing different roles. The project manager controls whether the same resource can be assigned to an activity more than once.

Field	Type	Description
NewValues	ResourceAssignmentType Refer to the entries in the ResourceAssignmentType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ResourceAssignmentType Refer to the entries in the ResourceAssignmentType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ResourceAssignmentType Table

Type: ResourceAssignmentType	
Elements	Type
ActivityObjectId	int
ActualCost	double
ActualCurve	string
ActualFinishDate	dateTime
ActualOvertimeCost	double
ActualOvertimeUnits	double
ActualRegularCost	double
ActualRegularUnits	double
ActualStartDate	dateTime
ActualThisPeriodCost	double

ActualThisPeriodUnits	double
ActualUnits	double
AtCompletionCost	double
AtCompletionUnits	double
CostAccountObjectId	int
DrivingActivityDatesFlag	boolean
IsActivityFlagged	boolean
IsCostUnitsLinked	boolean
ObjectId	int
OvertimeFactor	double
PendingPercentComplete	double
PendingRemainingUnits	double
PlannedCost	double
PlannedCurve	string
PlannedFinishDate	dateTime
PlannedLag	double
PlannedStartDate	dateTime
PlannedUnits	double
PlannedUnitsPerTime	double
Proficiency	string restricted to '1 - Master' '2 - Expert' '3 - Skilled' '4 - Proficient' '5 - Inexperienced'

RateSource	string restricted to 'Resource' 'Role' 'Override'
RateType	string restricted to 'Price / Unit' 'Price / Unit 2' 'Price / Unit 3' 'Price / Unit 4' 'Price / Unit 5'
RemainingCost	double
RemainingCurve	string
RemainingFinishDate	dateTime
RemainingStartDate	dateTime
RemainingUnits	double
RemainingUnitsPerTime	double
ResourceCurveObjectId	int
ResourceObjectId	int
ResourceType	string restricted to 'Labor' 'Nonlabor' 'Material'
RoleObjectId	int

ResourceCodeAssignmentCreated Message

Field	Type	Description
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ResourceCodeObjectId	int	The unique ID of the associated resource code.
ResourceCodeTypeObjectId	int	The unique ID of the parent resource code type.
ResourceObjectId	int	The unique ID of the resource to which the resource code is assigned.

ResourceCodeAssignmentUpdated Message

Field	Type	Description
ResourceCodeObjectId	int	The unique ID of the associated resource code.
ResourceCodeTypeObjectId	int	The unique ID of the parent resource code type.
ResourceObjectId	int	The unique ID of the resource to which the resource code is assigned.
NewValues	ResourceCodeAssignment Type Refer to the entries in the ResourceCodeAssignmentType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ResourceCodeAssignment Type Refer to the entries in the ResourceCodeAssignmentType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ResourceCodeAssignmentType Table

Type: ResourceCodeAssignmentType	
Elements	Type
ResourceCodeObjectId	int
ResourceObjectId	int

ResourceCreated Message

Field	Type	Description
Id	string	The short code that uniquely identifies the resource.
Name	string	The name of the resource.
ObjectId	int	The unique ID generated by the system.

ResourceUpdated Message

Field	Type	Description
Id	string	The short code that uniquely identifies the resource.
Name	string	The name of the resource.
ObjectId	int	The unique ID generated by the system.
NewValues	ResourceType Refer to the entries in the ResourceType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.

Field	Type	Description
OldValues	ResourceType Refer to the entries in the ResourceType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ResourceType Table

Type: ResourceType	
Elements	Type
AutoComputeActuals	boolean
CalculateCostFromUnits	boolean
CalendarObjectId	int
CurrencyObjectId	int
DefaultUnitsPerTime	double
EmailAddress	string
EmployeeId	string
Id	string
IntegratedType	string restricted to 'ERP' 'Fusion' 'Gateway'
IsActive	boolean
IsOverTimeAllowed	boolean
LocationObjectId	int
Name	string

ObjectId	int
OfficePhone	string
OtherPhone	string
OvertimeFactor	double
ParentObjectId	int
PrimaryRoleObjectId	int
ResourceType	string restricted to 'Labor' 'Nonlabor' 'Material'
ShiftObjectId	int
TimesheetApprovalManagerObjectId	int
Title	string
UnitOfMeasureObjectId	int
UseTimesheets	boolean
UserObjectId	int

ResourceRateCreated Message

Field	Type	Description
EffectiveDate	dateTime	The effective date for the resource price and maximum units per time.
ObjectId	int	The unique ID generated by the system.
ResourceObjectId	int	The unique ID of the associated resource.

ShiftPeriodObjectid	int	The unique ID of the associated shift.
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ResourceRateUpdated Message

Field	Type	Description
EffectiveDate	dateTime	The effective date for the resource price and maximum units per time.
ObjectId	int	The unique ID generated by the system.
ResourceObjectid	int	The unique ID of the associated resource.
ShiftPeriodObjectid	int	The unique ID of the associated shift.
NewValues	ResourceRateType Refer to the entries in the ResourceRateType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ResourceRateType Refer to the entries in the ResourceRateType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ResourceRateType Table

Type: ResourceRateType	
Elements	Type

EffectiveDate	dateTime
MaxUnitsPerTime	double
ObjectId	int
PricePerUnit	double
PricePerUnit2	double
PricePerUnit3	double
PricePerUnit4	double
PricePerUnit5	double
ResourceObjectId	int
ShiftPeriodObjectId	int

ResourceRoleCreated Message

Field	Type	Description
ResourceObjec tId	int	The unique ID of the associated resource.
RoleObjectId	int	The unique ID of the associated role.

ResourceRoleUpdated Message

Field	Type	Description
ResourceObjec tId	int	The unique ID of the associated resource.
RoleObjectId	int	The unique ID of the associated role.
NewValues	ResourceRoleType Refer to the entries in the ResourceRoleType Table below.	The new values of Physical and writable fields that have changed.

	Additional information can be found in the p6events.xsd schema.	
OldValues	ResourceRoleType Refer to the entries in the ResourceRoleType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ResourceRoleType Table

Type: ResourceRoleType	
Elements	Type
Proficiency	string restricted to '1 - Master' '2 - Expert' '3 - Skilled' '4 - Proficient' '5 - Inexperienced'
ResourceObjectId	int
RoleObjectId	int

ResourceTeamCreated Message

Field	Type	Description
Name	string	The name of the resource team.
ObjectId	int	The unique ID generated by the system.
UserObjectId	int	The unique ID of the associated user.

ResourceTeamUpdated Message

Field	Type	Description
Name	string	The name of the resource team.
ObjectId	int	The unique ID generated by the system.
UserObjectId	int	The unique ID of the associated user.
NewValues	ResourceTeamType Refer to the entries in the ResourceTeamType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	ResourceTeamType Refer to the entries in the ResourceTeamType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

ResourceTeamType Table

Type: ResourceTeamType	
Elements	Type
Description	string
Name	string
ObjectId	int
UserObjectId	int
Resources	

RiskCategoryCreated Message

Field	Type	Description
Name	string	The name of the risk category.
ObjectId	int	The unique ID generated by the system.
ParentObjectId	int	The unique ID of the parent risk type of this risk type in the hierarchy.

RiskCategoryUpdated Message

Field	Type	Description
Name	string	The name of the risk category.
ObjectId	int	The unique ID generated by the system.
ParentObjectId	int	The unique ID of the parent risk type of this risk type in the hierarchy.
NewValues	RiskCategoryType Refer to the entries in the RiskCategoryType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskCategoryType Refer to the entries in the RiskCategoryType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskCategoryType Table

Type: RiskCategoryType	
Elements	Type
Name	string
ObjectId	int
ParentObjectId	int

RiskCreated Message

Field	Type	Description
Id	string	The ID of the Risk. Must be unique within a project.
IdentifiedByResourceObjectId	int	The unique ID of the resource that identified the risk.
IdentifiedDate	dateTime	The date this risk was identified.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
ResourceObjectId	int	The unique ID of the associated resource.
RiskCategoryObjectId	int	The unique ID of the category to which the Risk is assigned. e.g. Weather, Health, Legal etc. A Risk can only be associated with a single category.

RiskUpdated Message

Field	Type	Description
Id	string	The ID of the Risk. Must be unique within a project.
IdentifiedByResourceO	int	The unique ID of the resource

bjectId		that identified the risk.
IdentifiedDate	dateTime	The date this risk was identified.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
ResourceObjectId	int	The unique ID of the associated resource.
RiskCategoryObjectId	int	The unique ID of the category to which the Risk is assigned. e.g. Weather, Health, Legal etc. A Risk can only be associated with a single category.
NewValues	RiskType Refer to the entries in the RiskType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskType Refer to the entries in the RiskType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskType Table

Type: RiskType	
Elements	Type
Cause	string
Description	string
Effect	string

Id	string
IdentifiedByResourceObjectId	int
IdentifiedDate	dateTime
Name	string
Note	string
ObjectId	int
ProjectObjectId	int
ResourceObjectId	int
RiskCategoryObjectId	int
Status	string restricted to 'Proposed' 'Open' 'Active' 'Rejected' 'Managed' 'Impacted'
Type	string restricted to 'Threat' 'Opportunity'

RiskImpactCreated Message

Field	Type	Description
ProjectObjectId	int	The unique ID of the associated project.
RiskObjectId	int	The unique ID of the associated risk.
RiskThresholdLevelObjec tId	int	The unique ID of the associated Risk Threshold.

RiskThresholdObjectId	int	The unique ID of the associated Risk Threshold Type.
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RiskImpactUpdated Message

Field	Type	Description
ProjectObjectId	int	The unique ID of the associated project.
RiskObjectId	int	The unique ID of the associated risk.
RiskThresholdLevelObjectId	int	The unique ID of the associated Risk Threshold.
RiskThresholdObjectId	int	The unique ID of the associated Risk Threshold Type.
NewValues	RiskImpactType Refer to the entries in the RiskImpactType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskImpactType Refer to the entries in the RiskImpactType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskImpactType Table

Type: RiskImpactType	
Elements	Type

RiskObjectId	int
RiskThresholdLevelObjectId	int

RiskMatrixCreated Message

Field	Type	Description
Name	string	The name of the risk matrix.
ObjectId	int	The unique ID generated by the system.

RiskMatrixUpdated Message

Field	Type	Description
Name	string	The name of the risk matrix.
ObjectId	int	The unique ID generated by the system.
NewValues	RiskMatrixType Refer to the entries in the RiskMatrixType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskMatrixType Refer to the entries in the RiskMatrixType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskMatrixType Table

Type: RiskMatrixType

Elements	Type
Description	string
Name	string
ObjectId	int
RiskScoringMethod	string restricted to 'Highest' 'Average of Impacts' 'Average of Individual Scores'

RiskMatrixScoreCreated Message

Field	Type	Description
ObjectId	int	The unique ID generated by the system.
RiskMatrixObjectId	int	The unique ID of the associated Risk Matrix.

RiskMatrixScoreUpdated Message

Field	Type	Description
ObjectId	int	The unique ID generated by the system.
RiskMatrixObjectId	int	The unique ID of the associated Risk Matrix.
NewValues	RiskMatrixScoreType Refer to the entries in the RiskMatrixScoreType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.

OldValues	RiskMatrixScoreType Refer to the entries in the RiskMatrixScoreType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.
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RiskMatrixScoreType Table

Type: RiskMatrixScoreType	
Elements	Type
ObjectId	int
ProbabilityThresholdLevel	int
RiskMatrixObjectId	int
Severity1	int
Severity1Label	string
Severity2	int
Severity2Label	string
Severity3	int
Severity3Label	string
Severity4	int
Severity4Label	string
Severity5	int
Severity5Label	string
Severity6	int
Severity6Label	string
Severity7	int

Severity7Label	string
Severity8	int
Severity8Label	string
Severity9	int
Severity9Label	string

RiskMatrixThresholdCreated Message

Field	Type	Description
RiskMatrixObjectId	int	The unique ID of the associated Risk Matrix.
RiskThresholdObjectId	int	The unique ID of the associated Risk Threshold.

RiskMatrixThresholdUpdated Message

Field	Type	Description
RiskMatrixObjectId	int	The unique ID of the associated Risk Matrix.
RiskThresholdObjectId	int	The unique ID of the associated Risk Threshold.
NewValues	RiskMatrixThresholdType Refer to the entries in the RiskMatrixThresholdType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.

OldValues	RiskMatrixThresholdType Refer to the entries in the RiskMatrixThresholdType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.
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RiskMatrixThresholdType Table

Type: RiskMatrixThresholdType	
Elements	Type
RiskMatrixObjectId	int
RiskThresholdObjectId	int

RiskResponseActionCreated Message

Field	Type	Description
Id	string	The ID of the risk response action. This must be unique within the assigned risk.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the project associated with the risk response action.
RiskResponsePlanObjectId	int	The unique ID of the risk response plan associated with the risk response action.

RiskResponseActionUpdated Message

Field	Type	Description
Id	string	The ID of the risk response action. This must be unique within the

		assigned risk.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the project associated with the risk response action.
RiskResponsePlanObjectId	int	The unique ID of the risk response plan associated with the risk response action.
NewValues	RiskResponseActionType Refer to the entries in the RiskResponseActionType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskResponseActionType Refer to the entries in the RiskResponseActionType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskResponseActionType Table

Type: RiskResponseActionType	
Elements	Type
ActivityObjectId	int
Id	string
Name	string
ObjectId	int
ResourceObjectId	int

RiskResponsePlanObjectId	int
Status	string restricted to 'Proposed' 'Sanctioned' 'Rejected' 'In Progress' 'Complete'

RiskResponseActionImpactCreated Message

Field	Type	Description
ProjectObjectId	int	The ID of the risk response action impact. This must be unique within the assigned risk.
RiskResponseActionObjectId	int	The unique ID of the risk response action associated with the risk response action impact.
RiskThresholdLevelObjectId	int	The unique ID of the risk threshold level associated with the risk response action.
RiskThresholdObjectId	int	The unique id of the risk threshold associated with the risk response action.

RiskResponseActionImpactUpdated Message

Field	Type	Description
ProjectObjectId	int	The unique ID of the project associated with the risk response action impact.
RiskResponseActionObjectId	int	The unique ID of the risk response action associated with the risk response action impact.
RiskThresholdLevelObjectId	int	The unique ID of the risk threshold level associated with the risk response action impact.

RiskThresholdObjectId	int	The unique ID of the risk threshold associated with the risk response action impact.
NewValues	RiskResponseActionImpact Type Refer to the entries in the RiskResponseActionImpactType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskResponseActionImpact Type Refer to the entries in the RiskResponseActionImpactType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskResponseActionImpactType Table

Type: RiskResponseActionImpactType	
Elements	Type
RiskResponseActionObjectId	int
RiskThresholdLevelObjectId	int

RiskResponsePlanCreated Message

Field	Type	Description
Id	string	The ID of the risk response plan. This must be unique within the assigned risk.
ObjectId	int	The unique ID generated by the system.

ProjectObjectI d	int	The unique ID of the associated project.
RiskObjectI d	int	The unique ID of the associated risk.

RiskResponsePlanUpdated Message

Field	Type	Description
Id	string	The ID of the risk response plan. This must be unique within the assigned risk.
ObjectId	int	The unique ID generated by the system.
ProjectObjectId	int	The unique ID of the associated project.
RiskObjectId	int	The unique ID of the associated risk.
NewValues	RiskResponsePlanType Refer to the entries in the RiskResponsePlanType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskResponsePlanType Refer to the entries in the RiskResponsePlanType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskResponsePlanType Table

Type: RiskResponsePlanType

Elements	Type
Id	string
IsActive	boolean
Name	string
ObjectId	int
ResponseType	string restricted to 'Avoid' 'Transfer' 'Reduce' 'Accept' 'Exploit' 'Facilitate' 'Enhance' 'Reject'
RiskObjectId	int

RiskThresholdCreated Message

Field	Type	Description
Name	string	The name of the risk score type.
ObjectId	int	The unique ID generated by the system.

RiskThresholdUpdated Message

Field	Type	Description
Name	string	The name of the risk score type.
ObjectId	int	The unique ID generated by the system.
NewValues	RiskThresholdType	The new values of Physical and

	Refer to the entries in the RiskThresholdType Table below. Additional information can be found in the p6events.xsd schema.	writable fields that have changed.
OldValues	RiskThresholdType Refer to the entries in the RiskThresholdType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskThresholdType Table

Type: RiskThresholdType	
Elements	Type
Name	string
ObjectId	int
ThresholdType	string restricted to 'Probability' 'Tolerance' 'Schedule' 'Cost' 'Relative Schedule' 'Relative Cost' 'User Defined'

RiskThresholdLevelCreated Message

Field	Type	Description
Code	string	The 10 character code for the threshold level. Must be unique.
ObjectId	int	The unique ID generated by the system.

RiskThresholdObjectId	int	The unique ID of the associated Risk Threshold.
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RiskThresholdLevelUpdated Message

Field	Type	Description
Code	string	The 10 character code for the threshold level. Must be unique.
ObjectId	int	The unique ID generated by the system.
RiskThresholdObjectId	int	The unique ID of the associated Risk Threshold.
NewValues	RiskThresholdLevelType Refer to the entries in the RiskThresholdLevelType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RiskThresholdLevelType Refer to the entries in the RiskThresholdLevelType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RiskThresholdLevelType Table

Type: RiskThresholdLevelType	
Elements	Type
Code	string

Color	string restricted to pattern '#[A-Fa-f0-9]{6}'
CostRange	double
Level	int
Name	string
ObjectId	int
ProbabilityRange	double
Range	string
RiskThresholdObjectId	int
ScheduleRange	double
ToleranceRange	int

RoleCreated Message

Field	Type	Description
Id	string	The short code that uniquely identifies the role.
Name	string	The name of the role. The role name uniquely identifies the role.
ObjectId	int	The unique ID generated by the system.

RoleUpdated Message

Field	Type	Description
Id	string	The short code that uniquely identifies the role.

Name	string	The name of the role. The role name uniquely identifies the role.
ObjectId	int	The unique ID generated by the system.
NewValues	RoleType Refer to the entries in the RoleType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RoleType Refer to the entries in the RoleType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RoleType Table

Type: RoleType	
Elements	Type
CalculateCostFromUnits	boolean
Id	string
Name	string
ObjectId	int
ParentObjectId	int

RoleRateCreated Message

Field	Type	Description
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ObjectId	int	The unique ID generated by the system.
RoleObjectId	int	The unique ID of the associated role.

RoleRateUpdated Message

Field	Type	Description
ObjectId	int	The unique ID generated by the system.
RoleObjectId	int	The unique ID of the associated role.
NewValues	RoleRateType Refer to the entries in the RoleRateType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	RoleRateType Refer to the entries in the RoleRateType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

RoleRateType Table

Type: RoleRateType	
Elements	Type
ObjectId	int
PricePerUnit	double
PricePerUnit2	double
PricePerUnit3	double
PricePerUnit4	double

PricePerUnit5	double
RoleObjectId	int

RoleTeamCreated Message

Field	Type	Description
Name	string	The name of the role team.
ObjectId	int	The unique ID generated by the system.
UserObjectId	int	The unique ID of a specific user who has access to the selected role team.

RoleTeamUpdated Message

Field	Type	Description
Name	string	The name of the role team.
ObjectId	int	The unique ID generated by the system.
UserObjectId	int	The unique ID of a specific user who has access to the selected role team.
NewValues	RoleTeamType Refer to the entries in the RoleTeamType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.

OldValues	RoleTeamType Refer to the entries in the RoleTeamType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.
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RoleTeamType Table

Type: RoleTeamType	
Elements	Type
Description	string
Name	string
ObjectId	int
UserObjectId	int
Roles	

TimesheetUpdated Message

Field	Type	Description
ResourceId	string	The short code that uniquely identifies the resource.
ResourceName	string	The name of the resource.
ResourceObjectId	int	The unique ID of the associated resource.
StatusDate	dateTime	The date on which the status of the timesheet was last changed.
TimesheetPeriodObjectId	int	The unique ID of the timesheet period.

UserName	string	The user name who updated the timesheet.
UserObjectId	int	The unique ID of the associated user.
NewValues	TimesheetType Refer to the entries in the TimesheetType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	TimesheetType Refer to the entries in the TimesheetType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

TimesheetType Table

Type: TimesheetType	
Elements	Type
Status	string restricted to 'Submitted' 'Approved' 'Resource Manager Approved' 'Project Manager Approved' 'Active' 'Rejected' 'Not Started' 'Resubmitted' 'Reopened' 'Submitted for RM' 'Resubmitted for RM'

UDFValueCreated Message

Field	Type	Description
Cost	double	The value of the cost UDF.
Double	double	The value of the double UDF.
FinishDate	dateTime	The value of the finish date UDF.
ForeignObjectId	int	The unique ID of the business object to which the UDF is assigned: ProjectObjectId, ActivityObjectId, ResourceObjectId, etc.
Indicator	string restricted to 'None' 'Red' 'Yellow' 'Green' 'Blue'	The value of the indicator UDF.
Integer	int	The value of the integer UDF.
ProjectObjectId	int	The unique ID of the associated project.
StartDate	dateTime	The value of the start date UDF.
Text	string	The value of the text UDF.
UDFCodeObjectId	int	The unique ID of the associated UDF code.
UDFTypeObjectId	int	The unique ID of the associated UDF type.
UDFTypeSubjectArea	string restricted to 'Activity' 'Activity Expense' 'Activity Step' 'Project' 'Project Issue' 'Project Risk'	The subject area of the associated user-defined field type.

	'Resource' 'Resource Assignment' 'WBS' 'Work Products and Documents' 'Activity Step Template Item'	
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UDFValueUpdated Message

Field	Type	Description
ForeignObjectId	int	The unique ID of the business object to which the UDF is assigned: ProjectObjectId, ActivityObjectId, ResourceObjectId, etc.
ProjectObjectId	int	The unique ID of the associated project.
UDFCodeObjectId	int	The unique ID of the associated UDF code.
UDFTypeObjectId	int	The unique ID of the associated UDF type.
UDFTypeSubjectArea	string restricted to 'Activity' 'Activity Expense' 'Activity Step' 'Project' 'Project Issue' 'Project Risk' 'Resource' 'Resource Assignment' 'WBS' 'Work Products and Documents' 'Activity Step Template Item'	The subject area of the associated user-defined field type..

NewValues	UDFValueType Refer to the entries in the UDFValueType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	UDFValueType Refer to the entries in the UDFValueType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

UDFValueType Table

Type: UDFValueType	
Elements	Type
Cost	double
Double	double
FinishDate	dateTime
ForeignObjectId	int
Indicator	string restricted to 'None' 'Red' 'Yellow' 'Green' 'Blue'
Integer	int
StartDate	dateTime
Text	string

UDFCodeObjectId	int
UDFTypeObjectId	int

UserCreated Message

Field	Type	Description
Name	string	The user's login name.
ObjectId	int	The unique ID generated by the system.
PersonalName	string	The user's personal or actual name.

UserUpdated Message

Field	Type	Description
Name	string	The user's login name.
ObjectId	int	The unique ID generated by the system.
PersonalName	string	The user's personal or actual name.
NewValues	UserType Refer to the entries in the UserType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	UserType Refer to the entries in the UserType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

UserType Table

Type: UserType	
Elements	Type
AllResourceAccessFlag	boolean
CurrencyObjectId	int
EmailAddress	string
EmailProtocol	string restricted to 'Internet Mail' 'MAPI Mail'
EnableUserToModifyViewSettingsFlag	boolean
GlobalProfileObjectId	int
MailServerLoginName	string
Name	string
ObjectId	int
OfficePhone	string
OutgoingMailServer	string
PersonalName	string
ReportingFlag	boolean
UserInterfaceViewObjectId	int

UserOBSCreated Message

Field	Type	Description
OBSObjectId	int	The unique ID of the OBS to which the user is granted access.

UserObjectId	int	The unique ID of the user who is assigned to the project OBS.
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UserOBSUpdated Message

Field	Type	Description
OBSObjectId	int	The unique ID of the OBS to which the user is granted access.
UserObjectId	int	The unique ID of the user who is assigned to the project OBS.
NewValues	UserOBSType Refer to the entries in the UserOBSType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	UserOBSType Refer to the entries in the UserOBSType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

UserOBSType Table

Type: UserOBSType	
Elements	Type
OBSObjectId	int
ProjectProfileObjectId	int
UserObjectId	int

WBSCreated Message

Field	Type	Description
Code	string	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
Name	string	The name of the WBS element.
ObjectId	int	The unique ID generated by the system.
ParentObjectId	int	The unique ID of the parent WBS of this WBS in the hierarchy.
ProjectObjectId	int	The unique ID of the associated project.
StatusReviewerObjectId	int	The unique ID generated by the system.

WBSUpdated Message

Field	Type	Description
Code	string	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
Name	string	The name of the WBS element.
ObjectId	int	The unique ID generated by the system.
ParentObjectId	int	The unique ID of the parent WBS of this WBS in the hierarchy.
ProjectObjectId	int	The unique ID of the associated project.
StatusReviewerObjectI	int	The unique ID generated by the

Field	Type	Description
d		system.
NewValues	WBSType Refer to the entries in the WBSType Table below. Additional information can be found in the p6events.xsd schema.	The new values of Physical and writable fields that have changed.
OldValues	WBSType Refer to the entries in the WBSType Table below. Additional information can be found in the p6events.xsd schema.	The old values of Physical and writable fields that have changed.

WBSType Table

Type: WBSType	
Elements	Type
AnticipatedFinishDate	dateTime
AnticipatedStartDate	dateTime
Code	string
EarnedValueComputeType	string restricted to 'Activity Percent Complete' '0 / 100' '50 / 50' 'Custom Percent Complete' 'WBS Milestones Percent Complete' 'Activity Percent Complete Using Resource Curves'

EarnedValueETCComputeType	string restricted to 'ETC = Remaining Cost for Activity' 'PF = 1' 'PF = Custom Value' 'PF = 1 / CPI' 'PF = 1 / (CPI * SPI)'
EarnedValueETCUserValue	double
EarnedValueUserPercent	double
IndependentETCLaborUnits	double
IndependentETCTotalCost	double
IntegratedType	string restricted to 'ERP' 'Fusion' 'Gateway'
IntegratedWBS	Boolean
Name	string
OBSObjectld	int
Objectld	int
OriginalBudget	double
ParentObjectld	int
ProjectObjectld	int
Status	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'
StatusReviewerObjectld	int

WBSCategoryObjectId	int
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Special Operation Event Message Contents

ApplyActualsInvoked Message

Field	Type	Description
DataDate	dateTime	The DataDate field that is associated with the project.
Project	ProjectIdentityType Refer to the entries in the ProjectIdentityType Table below.	The complex element that identifies the project.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

ProjectIdentityType Table

ProjectIdentityType	
Id	string
Name	string
ObjectId	int

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

ContentRepositoryDocumentAdded Message

Field	Type	Description
UUID	string	The Universal Unique Identifier of the document in the content repository.
UserName	string	The user name who performed the operation.
DocumentObjectId	int	The object ID of the document that's involved in the operation.

ContentRepositoryDocumentCheckedIn Message

Field	Type	Description
UUID	string	The Universal Unique Identifier of the document in the content repository.
UserName	string	The user name who performed the operation.
DocumentObjectId	int	The object ID of the document that's involved in the operation.

ContentRepositoryFolderAdded Message

Field	Type	Description
UUID	string	The Universal Unique Identifier of the document in the content repository
UserName	string	The user name who performed the operation.
DocumentObjectId	int	The object ID of the document that's involved in the operation.

ConvertProjectToBaselineInvoked Message

Field	Type	Description
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NewBaselineProjectObjectId	int	The object ID of the new Baseline project (it's the same as the object ID of the project that has been converted).
ObjectId	int	The object ID of the project to which the new baseline project belongs.

CopyBaselineInvoked Method

Field	Type	Description
NewBaselineProjectObjectId	int	The project id generated for the newly created baseline.
SourceProject	SourceProjectType Refer to the entries in the SourceProjectType table below.	The complex element that identifies the source project from which the baseline was copied.
TargetEPS	TargetEPSType Refer to the entries in the TargetEPSType table below.	The complex element that identifies the target EPS under which the baseline was copied.
Status	JobStatusType Refer to the entries in the JobStatusType table below.	Describes the state of the job after completion.

SourceProjectType Table

SourceProjectType	
Id	string
Name	string
ProjectObjectId	ObjectId

TargetEPSType Table

TargetEPSType	
Id	string
Name	string
ProjectObjectId	ObjectId
WBSObjectId	ObjectId

JobStatusType Table

JobStatusType
string restricted to completed or failed.

CopyBaselineProjectInvoked Message

Field	Type	Description
NewBaselineProjectObjectId	int	The object ID of the project created by the stored procedure.
ObjectId	int	The object ID of the parent EPS of the new project.
BaselineProjectObjectId	int	The object ID of the project that was copied.

CopyProjectAsBaselineInvoked Message

Field	Type	Description
NewBaselineProjectObjectId	int	The object ID of the project created by the stored procedure.
EPSObjectId	int	The object ID of the parent EPS of the new project.
ObjectId	int	The object ID of the project that was copied.

CopyProjectInvoked Message

Field	Type	Description
NewProjectObjectId	int	The object ID of the project created by the stored procedure.
EPSObjectId	int	The object ID of the parent EPS of the new project.
ObjectId	int	The object ID of the project that was copied.

CreateBaselineInvoked Message

Field	Type	Description
NewBaselineProjectObjectId	int	The project id generated for the newly created baseline.
SourceProject	SourceProjectType Refer to the entries in the SourceProjectType table below.	The complex element that identifies the source project for which the baseline was created.
TargetProject	TargetProjectType Refer to the entries in the TargetProjectType table below.	The complex element that identifies the target project for which the baseline was created.
Status	JobStatusType Refer to the entries in the JobStatusType table below.	Describes the state of the job after completion.

SourceProjectType Table

SourceProjectType	
Id	string
Name	string
ProjectObjectId	ObjectId

TargetProjectType Table

TargetProjectType	
Id	string
Name	string
ProjectObjectId	ObjectId
WBSObjectId	ObjectId

JobStatusType Table

JobStatusType
string restricted to completed or failed.

CreateCopyAsTemplateInvoked Message

Field	Type	Description
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NewTemplateProjectObjectId	int	The object ID of the template project that was created by the stored procedure.
EPSObjectId	int	The object ID of the parent EPS of the new template project
ObjectId	int	The object ID of the project or template project that was copied.

CreateProjectFromTemplateInvoked Message

Field	Type	Description
NewProjectObjectId	int	The object ID of the project created by the stored procedure.
EPSObjectId	int	The unique ID of the associated EPS.
ObjectId	int	The unique ID generated by the system.

CreateTemplatefromProjectInvoked Message

Field	Type	Description
NewTemplateProjectObjectId	int	The project id generated for the newly created template.
EPSObjectId	int	The unique id of the EPS under which the template was created.
ObjectId	int	The unique id generated for the newly created template.

ExportInvoked Message

Field	Type	Description
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ProjectObjectI d	int	The object ID of the project exported by the stored procedure.
ExportedAs	String Refer to the entries in the ExportedAs Table below.	The export type of the project.
Success	Boolean.	Export Status (1 = success, 0 = failure)

ExportedAs Table

ExportedAs
string restricted to 'MSP' 'Primavera'

GlobalSearchandReplaceInvoked Message

Field	Type	Description
UserId	int	The object ID of the user who invoked the Global Search and Replace Job.
Status	String Refer to the entries in the Status Table below.	The status of the job.

Status Table

Status
string restricted to 'Completed' 'Failed' 'COMPLETEDWITHERRORS'

ImportInvoked Message

Field	Type	Description
ImportFile	String	The name of the file which is imported.
EPSObjectId	int	The object ID of the EPS in which the project is imported by the stored procedure.
ProjectObjectId	int	The object ID of the project imported by the stored procedure.
Success	Boolean	Export Status (1 = success, 0 = failure)

LevelInvoked Message

Field	Type	Description
Project	ProjectIdentityType Refer to the entries in the ProjectIdentityType Table below.	The complex element that identifies the project.
Status	JobStatusType Refer to the entries in the JobStatus Type Table below.	Describes the state of the job after completion.

ProjectIdentityType Table

ProjectIdentityType	
Id	string
Name	string
ObjectId	int

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

PublishAuditdataInvoked Message

Field	Type	Description
Status	String Refer to the entries in the Status Table below.	The status of the publishing audit job.

Status Table

Status
string restricted to 'Completed' 'Failed' 'COMPLETEDWITHERRORS'

PublishEnterpriseDataInvoked Message

Field	Type	Description
CompletedOn	dateTime	The date and time at which publishing completed.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

PublishEnterpriseSummariesInvoked Message

Field	Type	Description
CompletedOn	dateTime	The date and time at which publishing completed.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

PublishProjectInvoked Message

Field	Type	Description
CompletedOn	dateTime	The date and time at which publishing completed.
Project	ProjectIdentityType Refer to the entries in the ProjectIdentityType Table below.	The complex element that identifies the project.

Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.
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ProjectIdentityType Table

ProjectIdentityType	
Id	string
Name	string
ObjectId	int

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

PublishResourceManagementInvoked Message

Field	Type	Description
CompletedOn	dateTime	The date and time at which publishing completed.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

JobStatusType Table

JobStatusType

string
restricted to
'Completed'
'Failed'

PublishResourceRoleAssignmentSpreadInvoked Message

Field	Type	Description
CompletedOn	dateTime	The date and time at which publishing completed.
Project	ProjectType Refer to the ProjectType table below.	The complex element that identifies the project.
Status	JobStatusType Refer to the JobStatusType table below.	Describes the state of the job after completion.

ProjectType Table

ProjectType	
Id	string
Name	string
ObjectId	int

JobStatusType Table

JobStatusType
string restricted to completed or failed.

PublishSecurityInvoked Message

Field	Type	Description
CompletedOn	dateTime	The date and time at which publishing completed.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

RecalculateAssignmentCostsInvoked Message

Field	Type	Description
Project	ProjectIdentityType Refer to the entries in the ProjectIdentityType Table below.	The complex element that identifies the project.
SyncOTFactor	boolean	The flag to synchronize the overtime factor.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	The state of the job after completion.

ProjectIdentityType Table

ProjectIdentityType	
Id	string

Name	string
ObjectId	int

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

RestoreBaselineProjectInvoked Message

Field	Type	Description
ObjectId	int	The object id of the baseline project, which is the same as the object id of the project after the restore.

ScheduleInvoked Message

Field	Type	Description
DataDate	dateTime	The DataDate field that is associated with the project.
Project	ProjectIdentityType Refer to the entries in the ProjectIdentityType Table below.	The complex element that identifies the project.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

ProjectIdentityType Table

ProjectIdentityType	
Id	string
Name	string
ObjectId	int

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

StorePeriodPerformanceInvoked Message

Field	Type	Description
FinancialPeriod	FinancialPeriodIdentityType Refer to the entries in the FinancialPeriodIdentityType Table below.	The complex element that identifies the FinancialPeriod.
Project	ProjectIdentityType Refer to the entries in the ProjectIdentityType Table below.	The complex element that identifies the project.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

FinancialPeriodIdentityType Table

FinancialPeriodIdentityType

EndDate	dateTime
Name	string
ObjectId	int
StartDate	dateTime

ProjectIdentityType Table

ProjectIdentityType	
Id	string
Name	string
ObjectId	int

JobStatusType Table

JobStatusType	
string restricted to 'Completed' 'Failed'	

SummarizeInvoked Message

Field	Type	Description
Project	ProjectIdentityType Refer to the entries in the ProjectIdentityType Table below.	The complex element that identifies the project.
Status	JobStatusType Refer to the entries in the JobStatusType Table below.	Describes the state of the job after completion.

ProjectIdentityType Table

ProjectIdentityType	
Id	string
Name	string
ObjectId	int

JobStatusType Table

JobStatusType
string restricted to 'Completed' 'Failed'

UpdatebaselineInvoked Message

Field	Type	Description
BaselineProjId	int	The object ID of the baseline project created by the stored procedure.
ParentProjId	int	The object ID of the parent project created by the stored procedure.
Status	String Refer to the entries in the JobStatusType Table below.	The status of the Update Baseline job.

Status Table

Status

string
restricted to
'Completed'
'Failed'
'COMPLETEDWITHERRORS'

XMLImportInvoked Message

Field	Type	Description
ImportFile	string	The file name of the XML file imported.
CreateNewProject		This complex element is included in the message if created new project has been specified for the XML import. It contains the EPSObjectId (the EPS where the project is imported to) and the ProjectObjectId (the object ID of the project created by the import). This element is mutually exclusive with the UpdateExistingProject element.
UpdateExistingProject		UpdateExistingProject: This complex element is included in the message if update existing project has been specified for the XML import. It contains the ProjectObjectId which is the object ID of the project that has been updated.
Success	boolean	The boolean that indicates if the import is successful or failed.
ErrorMessage	string	Contains the exception message if the import fails.

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